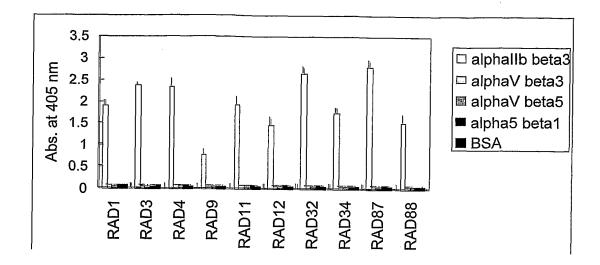
Fig.1



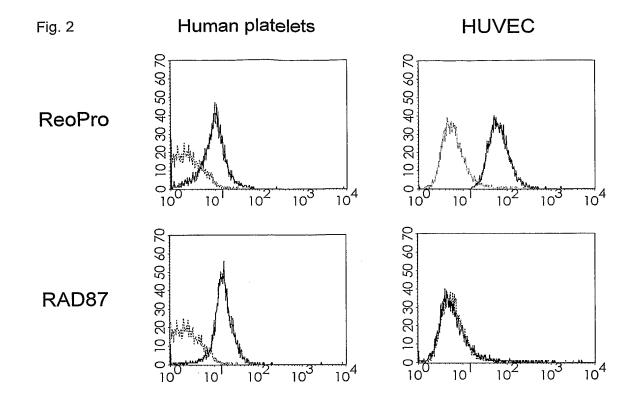
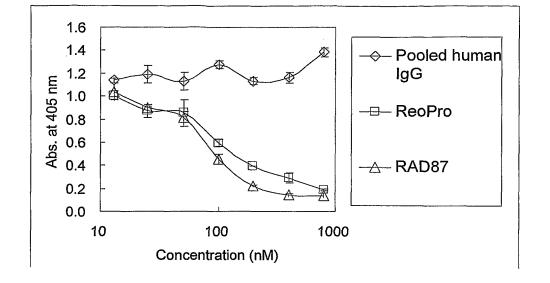
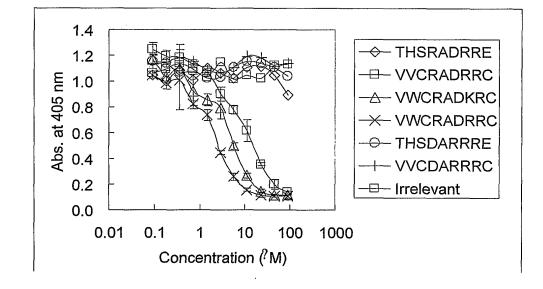


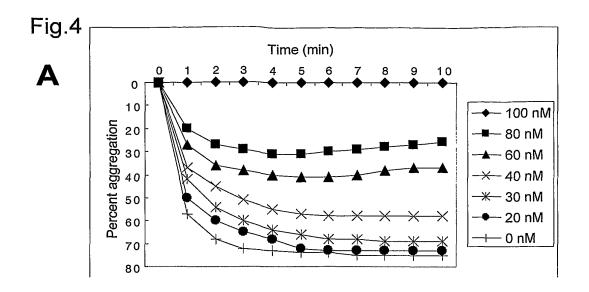
Fig.3

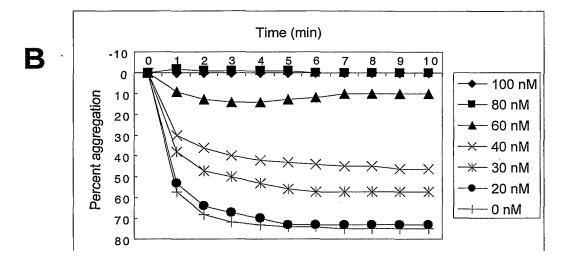












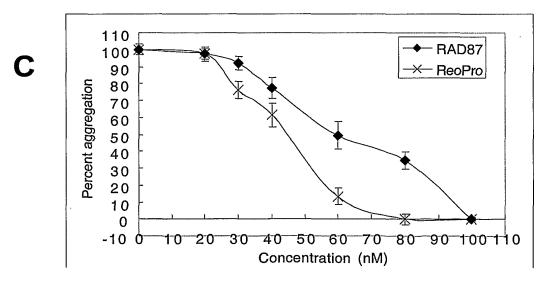
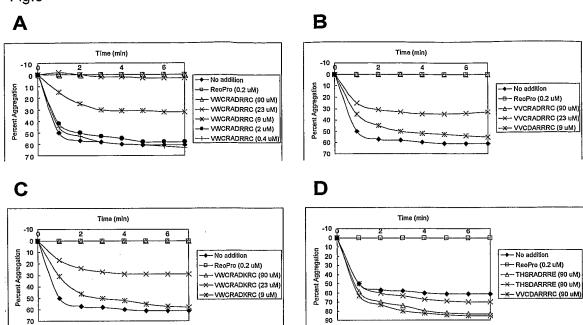


Fig.5



| 1 | | |
|---|--|--|
| | | |
| | | |
| | | |
| | | |

| FF | | | | | | | | | |
|------------------|-------------|--|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------------|--|
| | 113 114 118 | WGQGT | WGQGT | WGQGT | WGQGT | WGQGT | WGQGT | WGQGT | WGQGT |
| CDR3 | | VRVVCRADRRCYAMDV | VRVVCRADRRCYAMDV | VRVVCRADRRCYAMDV | VRVVCRADRRCYAMDV | VRVVCRADRRCYAMDV | VGVWCRADKRCYAMDV | VGVWCRADKRCYAMDV | VRTHSRADRREYAMDV |
| FR3 | 97 98 | SYAMH WVRQAPGKGLEWVS AIGTGGG TYYADSVKG RFTISRDNAKNSLYLQMNSLRAEDTAVYYCAR VRVVCRADRRCYAMDV | RFTISRDNAKNSLYLQMNSLRAEDTAVYYCAR VRVVCRADRRCYAMDV | RFTISRDNAKNSLYLQMNSLRAEDTAVYYCAR | RFTISRDNAKNSLYLQMNSLRAEDTAVYYCAR | RFTISRDNAKNSLYLQMNSLRAEDTAVYYCAR | RFTVSRDNSQSTAYLQINSLRAEDTAVYYCAR | RFTVSRDNSQSTAYLQINSLRAEDTAVYYCAR | WVRQAPGKGLEWVS GVSSSGITTYYAASVRG RFTISRDNSKNTLYLQMNSLRAEDTAVYYCAR VRTHSRADRREYAMDV |
| CDR2 | 50 65 66 | AIGTGGG TYYADSVKG | SYAMH WVRQAPGKGLEWVS AIGTGGG TYYADSVKG | AIGTGGG TYYADSVKG | AIGTGGG TYYADSVKG | AIGTGGG TYYADSVKG | AIGTGGG TYYADSVKG | WVRQAPGKGLEWVS AIGTGGG TYYADSVKG | GVSSSGITTYYAASVRG |
| FR2 | 35 36 49 50 | H WVRQAPGKGLEWVS | H WVRQAPGKGLEWVS | H WVRQAPGKGLEWVS | H WVRQAPGKGLEWVS | H WVRQAPGKGLEWVS | WVRQAPGKGLEWVS | | S WVRQAPGKGLEWVS |
| DR1 | 30 31 3 | | | S SYAMH | S FYGMS |
| . FR1 CJ | 3 | 7 EVQLLESGGGLVQPGGSLRLSCAGSGFTFS | EVQLLESGGGLVQPGGSLRLSCAGSGFTFS | 2 EVQLLESGGGLVQPGGSLRLSCAGSGFTFS | 4 EVQLLESGGGLVQPGGSLRLSCAGSGFTFS | EVQLLESGGGLVHPGGSLRLSCAGSGFTFS | 2 EVQLLESGGGLVHPGGSLRLSCAGSGFTFS | RAD88 EVQLLESGGGLVHPGGSLRLSCAGSGFTFS | RAD1 EVQLLESGGGLVQPGGSLRLSCAASGFTFS |
| V_{H} | | RAD87 | RAD9 | RAD12 | RAD34 | RAD3 | RAD32 E | RAD88 | RAD1 |

Figure (